

Federal Railroad Administration

Remarks for PTC Working Group Philadelphia March 6, 2003 Grady Cothen Deputy Associate Administrator for Safety

Objectives

- Rule status generally
- Efforts toward "Adjusted Base Case"
- Other Risk2 issues
- Progress on risk assessment
- Implications for going forward
- Further actions on the rule
- Cost/benefit study

Disclaimer

Opinions expressed are mine

As always, they are expressed here to inform

and to elicit corrective responses

Rule Status

- FRA preparing to move forward
- DOT policy to move overdue rules
- Suppliers, railroads deserve to know what the rules will be
- Members of this working group support early action
- Will complete FRA action on final rule by Labor Day

Base Case Efforts

- Adjusted base case is the major unresolved issue
- Trigger
 - Apparent agreement that speed should be a trigger
 - No agreement regarding density or other factors as a trigger
- Some lack of confidence with respect to degree of difference made by major methods of operation—but minds are open

Base Case Efforts

- None of us have complete confidence on how to proceed
- Data may help provide that confidence
- Initial focus on freight data
- Volpe Report Bob Dorer

Other Risk2 Issues

- "Representative case" issue
 - Subset or model set of the railroad in order to qualify systems for wide deployment?
 - Concerns include intent of NPRM and means of establishing
- Team will work with Volpe on development of database
- Consider implications of recent ART work?

Other Developments

- ASCAP progress
- Continued work expected
- Human factors remain big issue
- Increased use of COTS hardware / software presents larger zone of uncertainty
- Cost of safety analysis is growing

Other Developments

- Standards for interoperability have not emerged
- Technologies continue to proliferate indicating more diversity than commonality
- Existing projects have presented greater challenges than initially anticipated
- FRA is on the receiving end
- FRA resources may not grow in the future

Implications

- Assume "adjusted base case" is successfully resolved
- Final rule needs to be flexible, encourage use of failsafe (Subpart A-G compliant) technology where appropriate in context
- Option--traditional approach with good safety documentation and configuration management?
- Continued ability to qualify innovative systems using rigorous risk assessment

Implications

- FRA needs to see results of IDOT, other efforts before venturing to a pure performance-based approach to high speed rail
 - Where frequency of residual events is lowest, uncertainty is a bigger problem
 - FRA should be able to accept credible risk assessment, but should not be boxed where the case is close
 - Benefit/cost considerations should be on the table

Implications

But if we can mature these processes
 Part 235 should be re-examined

Further Actions on the Rule

- Provide data / analysis to Risk2 (Volpe 4/03)
- Complete Risk2 recommendation on base case (Risk2 group 5/03)
- PTC Working Group review and act (6/03)
- RSAC review and act (7/03)

Further Actions on the Rule

Other actions by this Working Group?

Cost/Benefit Mandate

- Initiated by Senate Approp. Comm.
- Conferees adopted
- Scope: costs/benefits of PTC "and related systems"
- Take into consideration—
 - Advances in technology
 - Savings to carriers and shippers
 - Priority to mix of passengers and freight
- Letter report by 10/1/2003

Cost/Benefit Mandate

- Safety impetus
- Impression that costs may have fallen
- Concern that investments in technology may not be forwardcompatible
- Deadline and report format indicate desire for quick turn-around

Cost/Benefit Plan

- Contract study on costs and business benefits
 - Informal consultation with members
- ART team help to describe architectures with current relevance / resort yeses and maybes at 2 levels
- FRA to integrate cost and benefit information

Cost/Benefit Plan

- PTC Working Group review draft letter report
- Make changes as appropriate
- If changes not agreed upon, succinctly reflect views of parties
- Recommendations to full committee

Thanks

- Thank you for your contributions to this process.
- Let's keep it going.